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Abstract

Coolers for Structure and Evolution of the Universe Missions

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Two continuous operation 18 K/20 K hydrogen sorption coolers are being developed by the Jet Propulsion Laboratory (JPL) as a NASA contribution to the European Space Agency (ESA) Planck mission that is currently planned for a 2007 launch. Separately, continuous operation 4 K helium – charcoal coolers are also being developed by the Jet Propulsion Laboratory. These coolers present an array of possibilities for future Structure and Evolution of the Universe missions. Recent results from testing of breadboard models of both of these coolers will be presented.